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the falling off of supplies from Russia since the out-249
break of war. Up to 1914 the export of oil was considerable.

There were 2,020 acres of land under *tea* along the 245
Black Sea coast in the Province of Batum and 75 acres in the Government of Kutais in 1914. Of this area, [471]
1,080 acres were in the Imperial Domains, 489 acres were the property of the firm of Popoff Brothers, and the remaining plantations belonged to thirteen villages near Chavka. The revenue from the sale of tea was in 1909 about £26 per acre on the Imperial plantations. As a result of the success achieved on the Imperial [654]
Domains, tea-growing was beginning to be taken up as a local industry, and the National Government granted a sum of about £1,500 towards the construction of a factory at Batum, under the management of the Batum Agricultural Society, where locally-grown tea could be cured. Another factory was also to be erected at Ozurgeti, under the management of an instructor from the Imperial plantation at Chavka. The cultivation of tea was proceeding successfully at Ozurgeti in 1914. In that year the plantations near Batum produced about 160 tons of leaf.

Tobacco is grown in all the provinces of Caucasia 249
except Stavropol, where its cultivation has been abandoned since 1911; but the most important centres are in Kuban, Sukhum, and Chernomoria. The Kuban plantations apparently give the heaviest crops,[1] but the tobacco of the best quality grows on the Black Sea coast, especially near Sukhum and Sochi. Of the total Russian output of high quality Turkish tobacco in 1915, 90 per cent. came from Caucasia, and of this 57·6 per cent. originated from Kuban, 21·2 per cent. from Sukhum, and 11·2 per cent. from other districts. In 1914, out of a total cultivated area of 80,500 acres, producing 32,600 tons of tobacco, 29,000 acres, pro-

[1] Judging by the returns for 1914; but the figures vary in different reports, and moreover the yield fluctuates considerably according to the weather, so that the figures for one season are not a safe basis for generalization.

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Caucasus, in 1913 there were 803. Agricultural methods were taught in some of the industrial schools. There were experimental botanical gardens, subsidized by the State, at Tiflis and Batum, and a sericultural station. The grants made by the Caucasian Board of Agriculture for the promotion of rural industries in 1913 amounted to £100,000, an advance of 50 per cent. on the sum granted in the previous year. Of this total £61,000 was allocated to research, £2,000 to improvement of live-stock, and £5,000 to grants in aid to agricultural societies.

In 1913 a commission of agriculturists appointed by the Viceroy of the Caucasus recommended that all educational and experimental institutions should be brought under the Board of Agriculture, and that a permanent commission should be formed to control and initiate such institutions, to organize the supply of information, and to compile statistics.

Partly on account of labour difficulties (see p. 50) there was an increasing demand for agricultural machinery, but better methods of cultivation were simultaneously being introduced.

Extensive *irrigation* schemes had been carried out and others were in contemplation. At Chamlik, a canal from the Laba, the largest tributary of the Kuban, irrigates several thousand acres of steppe land. There is an irrigation canal near Tiflis. In 1906, 62,100 acres of land in the Mughan steppe were reclaimed, at a cost to the State of £31,000; 14 villages were planted, and land which had been practically worthless yielded about £4 an acre. In 1913 the Irrigation Board set up a modulation section to test the rise and fall of water for irrigation purposes in the Karayaz experimental fields and the Mughan steppe. The irrigation of the Mughan steppe was completed and the adjoining Mil steppe was made fertile by means of the Romanov Irrigation Canal, which was opened in 1914; in this year a large barrage was under construction at Saalti, and was to have been completed by 1915. A total of 190,000 acres on the Mughan had been reclaimed,